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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/896,058	06/29/2001	Shigekazu Orita	188-87	9455
28249 7	590 11/01/2004		EXAMINER	
	& BARRESE, LLP VINGTON BLVD.		TORRES VELAZQUEZ, NORCA LIZ	
UNIONDALE,		•	ART UNIT	PAPER NUMBER
			1771	
			DATE MAILED: 11/01/2004	1

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	((
		09/896,058	ORITA ET AL.	
	Office Action Summary	Examiner	Art Unit	
		Norca L. Torres-Velazquez	1771	
	The MAILING DATE of this communication ap			:
Period fo	or Reply			
I HE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. It period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tirdly within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from	nely filed s will be considered timely. the mailing date of this communic	cation.
Status			•	
1) 🛛	Responsive to communication(s) filed on 20 S	September 2004		
		s action is non-final.	•	
3)	Since this application is in condition for allowa		secution as to the merit	te ie
ı	closed in accordance with the practice under E			
Dispositi	on of Claims	•		
	Claim(s) <u>1-4 and 6-16</u> is/are pending in the ap	plication		
	4a) Of the above claim(s) is/are withdra	•		7
	Claim(s) is/are allowed.	withom consideration.		
	Claim(s) <u>1-4 and 6-16</u> is/are rejected.		•	
	Claim(s) is/are objected to.			
	Claim(s) are subject to restriction and/o	ar election requirement		
, —		election requirement.		
	on Papers			
	The specification is objected to by the Examine			
	Γhe drawing(s) filed on is/are: a)□ acc			
	Applicant may not request that any objection to the			
·	Replacement drawing sheet(s) including the correct	tion is required if the drawing(s) is obj	ected to. See 37 CFR 1.12	21(d).
11)[1	Γhe oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152	<u>)</u>
Priority u	nder 35 U.S.C. § 119			
	Acknowledgment is made of a claim for foreign ☑ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).	
	1. Certified copies of the priority documents	s have been received.		
;	2. Certified copies of the priority documents		on No	
	3. Copies of the certified copies of the prior			
	application from the International Bureau		30	
* S	ee the attached detailed Office action for a list of	of the certified copies not received	d.	
Attachment((e)			
	of References Cited (PTO-892)	4) Interview Summary (DTO 442)	
2) 🔲 Notice	of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Dat	e	
3) 🔲 Inform	ation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	5) 🔲 Notice of Informal Pa	tent Application (PTO-152)	
S. Patent and Tra	No(s)/Mail Date	6)		
TOL-326 (Re		tion Summary P	art of Paper No./Mail Date 10	1904

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to amended claim 1 have been considered but are moot in view of the new ground(s) of rejection.

The present rejection addresses the limitations incorporated in claim 1 that were not addressed in the prior office action.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

3. Claims 1-4 and 6-16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. It is not clear was is meant in Claim 1 by "...at a sectional portion of the three dimensionally knitted base material, the direction in which the connection thread is arranged avoids intersecting the sectional plane." This is only described in the same way on page 7 of the specification. For examining purposes, the Examiner uses as reference Figure 1 which shows the presently claimed connection treads. Claims 2-4 and 6-16 are also rejected as being dependent on claim 1.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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5. Claims 1-5 and 7-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over ROELL (US 5,589,2450) in view of EBNETH (US 4,201,825).

ROELL discloses a textile spacer material that consists of two covering layers 1 and 2. preferably of knitted fabric, which are connected by the pile thread structure 3. (Column 1, lines 48-50) It is noted that the structure taught by ROELL reads on the claimed three dimensionally knitted base material composed of an upper ground structure, a lower ground structure and connection thread interconnecting the two layers. With regards to the heat-fusing thread, it is noted that the ROELL reference teaches that the mechanical and physiological properties of the textile spacer material can be varied depending in the selection of the thread material or other classic process parameter of production. The reference gives as example the use of a temperature sensitive material. (Refer to Column 4, lines 20-38) ROELL further teaches that the textile spacer material can be coated and/or the pile threads can be surface-modified. (Column 4, lines 56-60) ROELL teaches the use of the textile spacer material as a filter material, and indicates that special properties can also be formed by appropriately pre-treating the thread material for the pile thread structure and/or post-treating the textile spacer material. (Column 4, lines 61-65) The reference also teaches that the entire textile spacer material can be impregnated and that a sheathing of the threads can result depending on the type and quantity of the impregnation. (Column 5, lines 4-8)

With regard to the limitation of claim 1 requiring that "...at a sectional portion of the three dimensionally knitted base material, the direction in which the connection thread is arranged avoids intersecting the sectional plane", it is the Examiner's position these limitation is inherent to the invention of ROELL since the structure shown by the reference in Figure 1 is similar to the construction disclosed in Figure 1 of the present application, which shows a similar configuration of the connecting threads.

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With regards to claims 8 and 9, it is the Examiner position that the ROELL reference teachings in which the materials used for the pile thread structure are dependent on the intended use of the structure, are broad and would encompass the use of heat-fusing threads with melting points in the range of 100 to 190 °C.

While ROELL teaches post-treating the textile spacer material and that the entire textile spacer material, it fails to specifically teach subjecting the material to an electroless plating with at least one conductive metal.

EBNETH teaches a metallized textile material by currentless metal deposition. (Abstract) The reference teaches coating textile structures such as knitted and woven fabrics. (Column 2, lines 15-20) The reference further teaches using the textile material metallised for the production of antistatically filter cloths and further teaches that it is also possible to use a combination of copper plated and nickel plated wall coverings for electromagnetically screening off rooms from monitoring equipment. Electrical equipment can also be readily screened off from foreign waves and interfering frequencies. (Column 3, lines 36-47) With regard to claims 10-16, it is the Examiner's position that the structures disclosed by ROELL In Figures 1-9 read on the structures presently claimed.

Since both references are directed to knitted fabrics and their application in filters, the purpose disclosed by EBNETH would have been recognized in the pertinent art of ROELL.

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to modify the three dimensional textile spacer fabric of ROELL and provide with a currentless metal deposition of the entire structure with the motivation of producing an electromagnetically screen as disclosed by EBNETH above.

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6. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over ROELL and EBNETH

as applied to claim 1 above, and further in view of ENG et al. (US 5,532,052).

The ROELL and EBNETH references do not explicitly disclose the use of a Raschel structure.

ENG et al. disclose a camouflage material having radar screening properties comprised of a

warp-knitted fabric, so-called Raschel fabric.

Therefore, it would have been obvious at the time the invention was made to a person having

ordinary skill in the art to modify the electromagnetic wave shield and provide it with a Raschel

structure with the motivation of producing a light-weight knitted fabric as disclosed by ENG et al.

(Refer to Column 1, lines 16-18 and lines 32-33).

7. Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Norca L. Torres-Velazquez whose telephone number is 571-272-1484. The

examiner can normally be reached on Monday-Thursday 8:00-4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Terrel Morris can be reached on 571-272-1478. The fax phone number for the organization where this

application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be obtained

from either Private PAIR or Public PAIR. Status information for unpublished applications is available

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direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the

Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Norca L. Torres-Velazquez

Examiner

Art Unit 1771

October 20, 2004

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